The crown of tube amplification

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Audio Valve

Certificate of origin

This handcrafted product was special made for your high demands, to display the music on its finest way. We guarantee, that this amplifier was carefully produced and tested in all details.

Mr. Helmut Becker

[Manager Production & Development]

Sign:

since 1982

INSTRUCTION

manual

AVALON

MONO POWER AMPLIFIER

This handcrafted product was special made for your high demands,
to display the music on ist finest way.

We guarantee,that this amplifier was carefully produced
and tested in all details.

Congratulations on your decision to become the proud owner of the AUDIO-VALVE **AVALON** power amplifier.

This manual has been prepared to help you understand the operation of your amplifier and to provide some information about its design and the variety of ways it may be used.

We have designed and manufactured this amplifier to faithfully and accurately reproduce music. This hand build instrument should give a lifetime of pleasure and with a little care and a full understanding of the operation recommendation in this manual the **AVALON** should provide trouble free performance.

Please take time to read this manual thoroughly before using your amplifier.

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WARNING

This amplifier **AVALON** operates in **class - A** and is therefore capable of generating a moderately high temperatue which requires carefull placing to aviod any effect this heat may have on other equipment, funiture and fittings etc.

Do not remove the top cover from this amplifier. Hazardous voltages are present. Any repair work should be referered to a suitable qualified and experienced service person.

Do not attempt to connect any input of this amplifier to any of its outputs.

Do not earth any output terminal or connect any of these terminals together without following the instructions in this manual or seeking qualified assistance.

Do not place this amplifier in any position where liquids or any foreign material may accidentally enter it.

Do not disconnect any in / output wire, while the amplifier is operating.

Do not connect any voltage source short circut, earth / ground or appliance (other than suitable HiFi quality loudspeakers) to any output terminal.

Some preamplifiers, prossesors, CD players etc. produce large switching pulses when switched on, causing a loud click through the loudspeakers. For this reason, turn on all other equipment in your system and operate the Stand - by mode of the amplifier before turning on the Challenger.

Note: the **AVALON** power amplifier do not cause this problem.

FRONTPANEL

The front panel of the **AVALON** power amplifier incorporates with a small panel filled with two switches. These switches control the day to day function of the amplifier. The operation of this two switches is like following:

MAIN SWITCH

This heavy duty rocker switch is at the right side of this panel and switched the mains / line power of the amplifier **On** or **OFF**. A blue LED immediatly beside the switch illuminates to indicate that the power is ON.

This amplifier draws o moderate high current when switched on. It is not good practice to repeatedly active this switch ON and OFF rapidly.

STAND - BY SWITCH.

This switch on the left of the panel alters the operation STAND BY of the amplifier. Switch down is operation STAND BY , (the LED is off).

REAR PANEL

The facilities on the rear panel of the **AVALON** may seem not so complex. The rear panel incorporates all of the terminals for connecting the input signals and the output signals to the loadspeaker. A reasonable understanding of this amplifier and the logical approach should ensure that you are listening to this amplifier in a very short space of time without any difficults at all.

Please remember that the AUDIO VALVE **AVALON** power amplifier is a high quality electronic instrument capable of an exeptioneal level of performance.

Be sure that you understanding your requirements fully before you make any connection to this amplifier.

INPUT TERMINALS

Input terminals for this **AVALON** power amplifier are easily accsessible and fitted to the lower centre area of the rear panel. **RCA INPUT**. These standart type of RCA terminals are for use with unbalanced signals from most signal sources such as audio preamplifiers.

OUTPUT TERMINALS

Output connections for the Loudspeakers are provided on the lower centre of the rear panel. Two pairs of heavy duty, gold plated binding postes for each cannel are supplied. **CONNECT** your loudspeaker positive terminal to the amplifier (+) output terminal. Connect your loudspeaker negative terminal to the (-) output terminal.

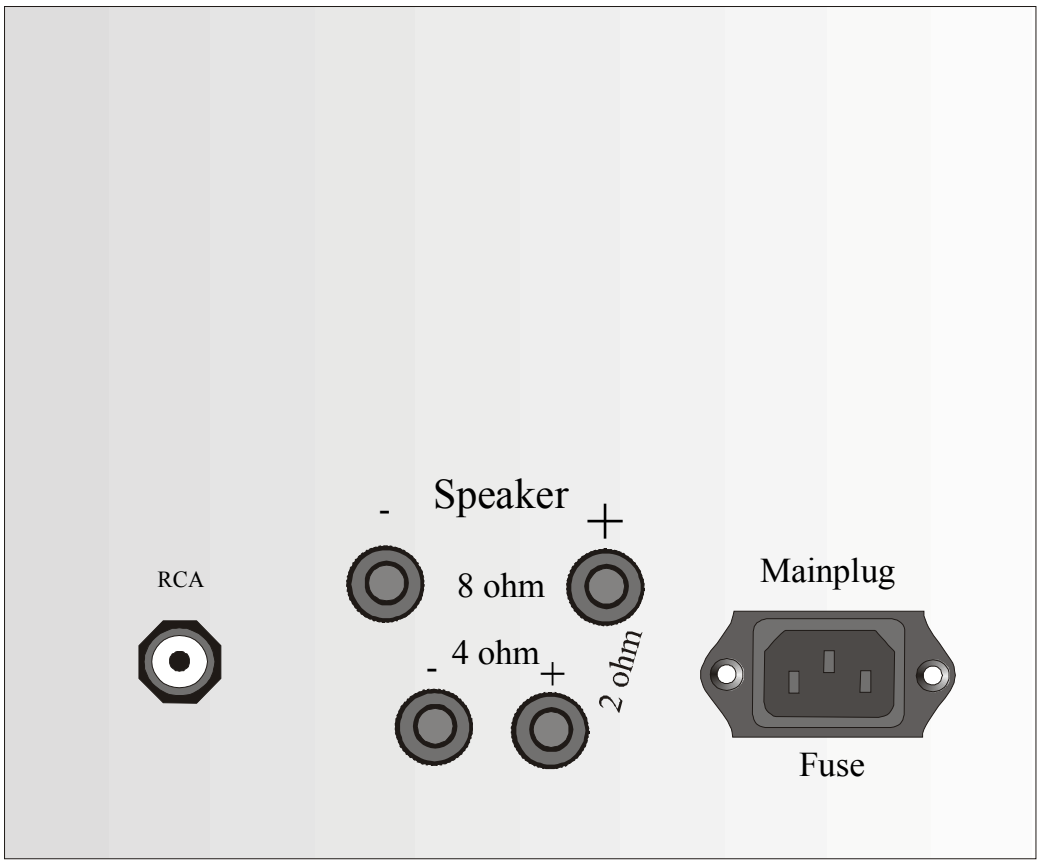
POLARITY – PHASING

It is important to achieve good stereo imaging in your listening room. By observing the wiring constructions above, each power amplifier / loudspeaker combination should be in phase. If you experience a poor stereo image and / or a lack of bass, check that the loudspeaker wiring has been connect correctly. We recommend that you use one of the easily obtainable "test - disc" to help you ensure both phasing and channel orientation are correct. If in doupt, consult your Audio Valve dealer for advice.

Do not make any other connection to any of the amplifiers negative or positive output terminals.

Quality of the connections must be examined to ensure a high performence trouble free operation is enjoyed.Check that the connections are tight, but do not overtighten with exessive use of spanners etc. If bare wires are used, make sure that no loose strands of wire short across to the other terminals or the amplifier chassis. When using plugs such as Banana, be sure to use good quality one`s with a firm fit.

Audio Valve
Operate
Power


Speaker
-
+
RCA
8 ohm
Mainplug
4 ohm
-
+
2 ohm
Fuse

INSTALLATION AND OPERATION

MAINS VOLTAGE

CHECK that the mains voltage printed on the rear of this amplifier is similar to the mains voltage normaly supplied to your area. If indoupt, please consult your AUDIO VALVE dealer.

PLACEMENT AND VENTILATION

This Audio Valve **AVALON** power amplifier is designed to operate at a moderately high temperature. The ideal location is on the rigid stand or floor mounted away from direct contact with any objects, materials or deep pile carpets which may be effected by the heat or which may interrupt the flow of air around the amplifier.
When operating the amplifiers quite a lot of heat is generated which should be allowed to dissipate without restriction. Make sure that no objects are placed on the top of the amplifier. Always ensure adequate ventilations.

MAINS / LINE POWER connection is via supplied plug-in lead. The standart IEC socket connects the mains power at the amplifier end while a local mains plug is required at the wall end. In the event where a "local" plug needs to be fitted to the wall end of the lead, ensure the at the plugs is wired correctly by a suitable qualified or experienced person.

Ensure the main switch of the front of this amplifier is OFF before attempting any modification of the mains connection.

MAINS / LINE FUSE

A Mains / Line fuse is fitted within the IEC Mains / Line socket on the rear of the amplifier. A small draw at the bottom of this socket may be removed **(after the IEC plug is removed)** by levering it out with a flat blade screw driver. The fuse fitted should be razed at no greater than 6.3 ampere slow blow.

In the unusual event that this fuse should blow, you must first esthablish the cause of this failure, cure the fault and then replace the fuse with one of the same type.

DO NOT FIT A FUSE WITH HIGHER RATING.

HALF AUTOMATIC BIAS CONTROL FUNCTION

Each power tube is controlled by plate current.
The correct function of the power tubes is shown by 1 LEDs,
next to each power tube.

When the amplifier is operating, no LED is shinning.
In case that any of the power tubes is faulty the LED,
which are together at the side of the power tubes ,
immidiatly indicated.

If this happens, you have to change the power tube of this place.
After changing the power tube, the LED must be off again.

Please notice:

All handling at the open amplifier has to be done
when the main power plug is **disconnected .**

When the amplifier is driven in a very high level output,
there is a slighty shinning of the LEDs.

AVALON - SPECIFICATIONS:

prinzip:	**Parallel-push-pull power amp**
tubes:	**1*12AU7, 1*12AX7, 8*beam power pentode for example: EL 84**
operate:	**class - A**
power output:	**50 Watt**
power consumption:	**160 Watt - Stand by mode - 30 Watt**
input sen.	**0 dBm (adjustable by resistor trimmer)**
input imp.	**1 * 47K**
output imp:	**2-4-8 ohm**
connectors:	**RCA input-jacket**
power bandwide:	**5-40.000 hz**
distortion:	**0,3% - 50 Watt (8 ohm load)**
damping:	**12**
bias:	**half autom. ,with LED shinning by bad power tube**
size:	**32*220*20 cm, D-H-W**
weight:	**22 pounds**
Stand-by mode:	**switchable**

W A R R A N T Y

AUDIO VALVE warrants its components for a three-year period on all electronics and a 90-day period on the tubes from the purchase date.

In the event of a failure of your amplifier , AUDIO VALVE will repair or readjust this unit or , should the occasion arise , will replace it provided that all conditions stipulated in this warranty are met.

In order to initiate service of any kind it is necessary to obtain distributor or dealer authorization prior to shipping the unit for service.

Any of the following conditions shall void the warranty:

- Operation not in accordance with this manual.
- Abuse , accidental damage or unauthorized modifications , as determined by AUDIO VALVE or its agents exclusively.
- Removal , defacing or falsifying of tne serial numbers.
- Shipping without the original complete factory crates.

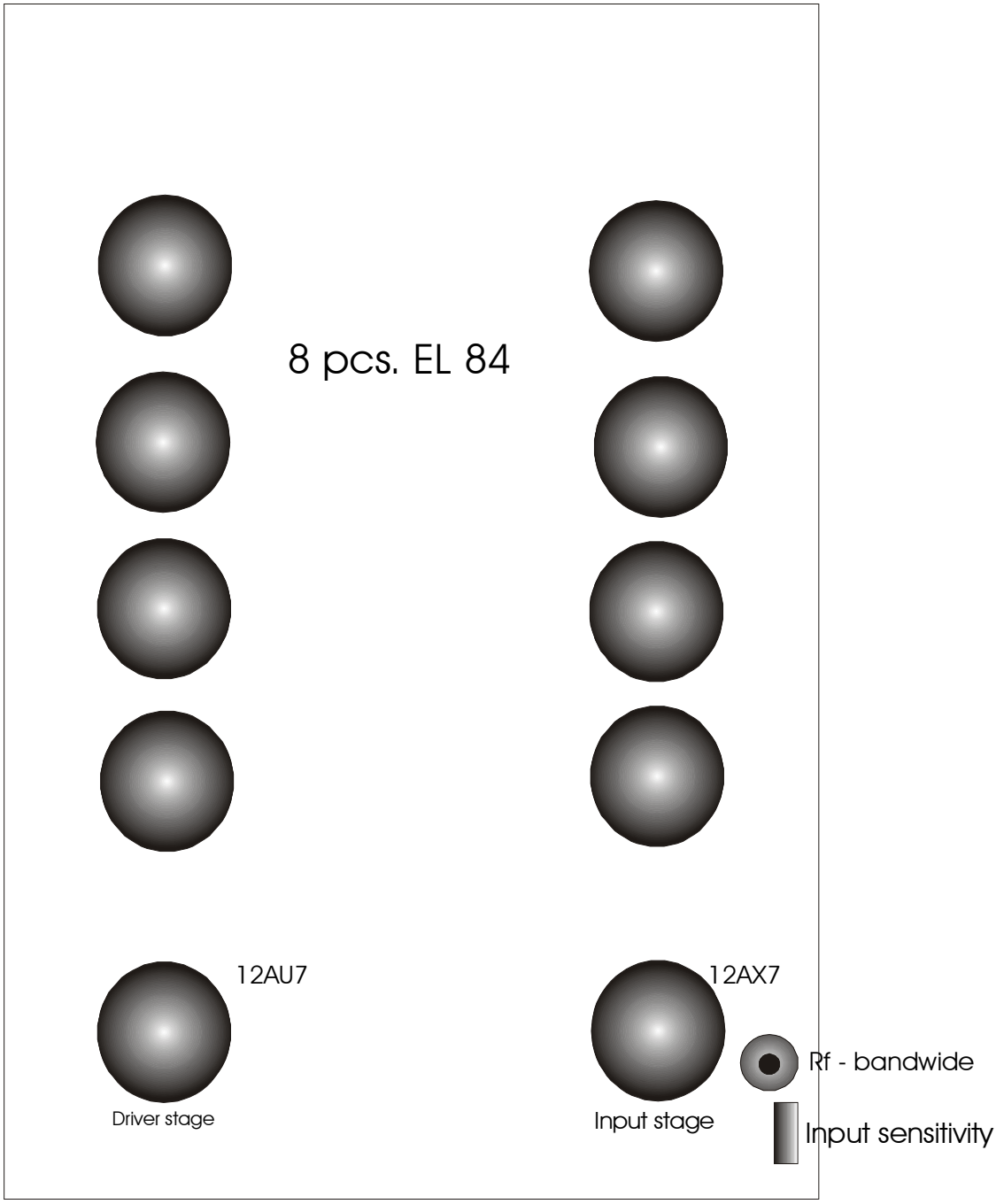
WARRANTY REGISTRATION

Please fill out and return this warranty form to your distributor / dealer within 15 days of the purchase date and a copy to AudioValve

- MODEL : _____
- SERIAL NUMBER : _____
- PURCHASE DATE : _____
- AUTHORIZED AUDIO - VALVE DEALER:

- PURCHASER`S NAME : _____
- STREET ADDRESS : _____
- CITY : _____
- ZIP / POSTAL CODE : _____

AVALON tube placement



Pc - board top side

CE – Confirmity

Declaration Of Conformity

Manufacturer: AudioValve,

Germany, 34123 KASSEL, Umbachsweg 70,

info@audiovalve.info

Product Name: EKLIPSE

Product Type: Audio Amplifier

Complies with Standards:

LVD: 92/31/EEC, 93/68/EEC, & 73/23/EWG

Safety: EN60065

EMC: EN55013, EN55020, EN55022, EN55103, EN61000-3-2, & EN61000-3-3

The official Declaration of Conformity for this product is kept on file at:
AudioValve, 34123 Kassel,Umbachsweg 70, Tel. 05617013360

:: AUDIOVALVE – ORIGINAL CERTIFICATE of testing ::

Kunde: Modell: **AVALON** Datum: **Ser.-Nr.**

Mechanische Baugruppen	Gehäuseaufbau ☐ lackierte Teile ☐ gedruckte Blenden ☐ Pfosten im Winkel ☐	Prüfer: Börger ☐ Markgraf ☐
Technische Baugruppen	Optische Leiterplattenprüfung vor Einbau ☐ Sitz aller Kabel, zugfest und isoliert ☐	Prüfer: Börger ☐ Markgraf ☐
• Elektronik	Alle Gleichspannungen gemessen ☐ Signale linker & rechter Kanal ☐ Geräusche ☐ Balance (nach rechts-rechts mehr) ☐ log. Lautstärke ☐ home theatre ☐ Eingänge – Ausgänge,Cinch/XLR ☐ Relais und Empfindlichkeiten ☐ Fernbedienung ☐ alle LED vorne ☐ (siehe separates Protoll für jeweiliges Modell unten) *nicht zutreffendes streichen	Prüfer: Börger ☐ Markgraf ☐
Optische Endkontrolle	Äusserliche Sichtprüfung ☐ lose Teile ☐ fehlende Schrauben ☐ keine Kratzer, Lack & Oberglas ☐ Sitz aller Muttern / Schrauben oben / unten ☐ Federleisten, Blenden, Seiten - fest ☐ Seriennummer, CE Sticker ☐	Prüfer: Börger ☐ Markgraf ☐

Meßtechnischer Teil:

	Soll	links	rechts
Hochspannung	340 V	☐	☐
Heizung	13,7 V	☐	☐
Bias 12.5 VDC	max . - 13,3 V	☐	☐
Kathode Ausgangstreiber	124 V	☐	☐
Anode Eingangsröhre links	95 V	☐	☐
Signalspannungen	Alle Eingänge	☐	☐
GERÄUSCHE getestet		☐	☐